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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/035,646	12/28/2001	Richard C. Gaus JR.	7589.0005 4095	
7590 06/02/2004			EXAMINER	
Finnegan, Henderson, Farabow,			PHAN, DAO LINDA	
Garrett & Dunner, L.L.P. 1300 I Street, N.W. Washington, DC 20005-3315			ART UNIT	PAPER NUMBER
			3662	

DATE MAILED: 06/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

7 7 % 1 1 2 1		Application No.	A == licent(a)	· MA		
, i		Application No.	Applicant(s)	an		
	Office Action Summary	10/035,646	GAUS ET AL.			
•	Office Action Summary	Examiner	Art Unit			
	The SAAU INC DATE of this communication	Dao L. Phan	3662			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with th	e correspondence add	ress		
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl' period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for a cause the application to become ABANDC	e timely filed days will be considered timely. rom the mailing date of this con DNED (35 U.S.C. § 133).	nmunication.		
Status						
1)⊠	Responsive to communication(s) filed on 28 D	<u>ecember 2001</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merit						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposit	ion of Claims					
4)🖂	Claim(s) <u>1-8</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
5)⊠	Claim(s) <u>1-6</u> is/are allowed.					
6)⊠	Claim(s) 7 and 8 is/are rejected.					
	Claim(s) is/are objected to.					
8)∐	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	r.				
10)[The drawing(s) filed on is/are: a) acc	epted or b) objected to by th	ie Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Off	ice Action or form PTC)-152.		
Priority ι	ınder 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents		(a)-(d) or (f).			
	2. Certified copies of the priority documents	s have been received in Applic	ation No			
	3. Copies of the certified copies of the prior	ity documents have been rece	ived in this National S	tage		
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* 5	See the attached detailed Office action for a list	of the certified copies not rece	ived.			
Attachmen	t(s)					
1) 🔯 Notic	e of References Cited (PTO-892)	4) Interview Summa	ary (PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail		52)		
	r No(s)/Mail Date	6) Other:	are aterit Appiloation (FTO-1	02)		

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The disclosure is objected to because of the following informalities: On p. 14, line
 the U.S. Application No. Serial No. is missing. Appropriate correction is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 7-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Marash et al (Pat. No. 6,594,367).

Marash et al teach an apparatus for computing filter coefficients of a beamformer based on a segment of input samples including a shared memory (14; col 5, lines 1-2) for receiving the plurality of blocks of input samples at a first rate wherein a first block of the plurality of blocks is received in a shared memory at a first time, and a processor 32 for reading the plurality of blocks of input samples from the shared memory at a second rate, computing (col 7, lines 30-38) a plurality of partial covariance matrices for the plurality of blocks read from the shared memory, adding 20, 40 the plurality of partial covariance matrices, wherein the first block of the plurality of blocks is read from the shared memory at a second time, wherein the second time is delayed from the first time and the second rate is greater than the first rate (fig. 1, 2).

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With regard to claim 8, Marash et al teach an apparatus for computing filter coefficients of a beamformer based on a segment of input samples including a shared memory (14₁; col 5, lines 1-2) for receiving the plurality of blocks of input samples, a plurality of partial covariance processors for reading the plurality of blocks of input samples from the shared memory wherein each plurality of partial covariance processors compute (col 7, lines 30-38) a partial covariance matrix for each block of input samples read by the partial covariance processor, and a processor for adding 20, 40 the partial covariance matrices computed by the plurality of partial covariance processors.

4. Claim 8 is rejected under 35 U.S.C. 102(b) as being anticipated by Abo-Zena et al.

Abo-Zena et al teach an apparatus for computing filter coefficients of a beamformer based on a segment of input samples including a shared memory 7 for receiving the plurality of blocks of input samples, a plurality of partial covariance processors for reading the plurality of blocks of input samples from the shared memory wherein each plurality of partial covariance processors compute 17, 19 a partial covariance matrix for each block of input samples read by the partial covariance processor, and a processor for adding 23 the partial covariance matrices computed by the plurality of partial covariance processors.

- 5. Claims 1-6 are allowed.
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao L. Phan whose telephone number is (703)306-4167. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarcza Thomas can be reached on (703)306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAO PHAN PATENT EXAMINER

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